

No.

8200133



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Land O'Lakes, Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *eighteen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT 54 STAT. 1642, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'L4204'



In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this 31st day of August in the year of our Lord one thousand nine hundred and eighty-three.

Attest:

Kenneth H. Egan

Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

John R. Block
Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, MEAT, GRAIN & SEED DIVISION

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions on reverse)

FORM APPROVED: OMB NO. 0581-0005

No certificate for plant variety protection may be issued unless a completed application form has been received (5 U.S.C. 553).

1. NAME OF APPLICANT(S) <p style="text-align: center;">Land O' Lakes, Inc.</p>		2. TEMPORARY DESIGNATION <p style="text-align: center;">77-2529</p>		3. VARIETY NAME <p style="text-align: center;">L4204</p>	
4. ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code) <p style="text-align: center;">R. R. 2 Webster City, Iowa 50595</p>		5. PHONE (Include area code) <p style="text-align: center;">515-543-4852</p>		<div style="border: 1px solid black; padding: 5px;"> FOR OFFICIAL USE ONLY PVPO NUMBER <p style="font-size: 1.2em; text-align: center;">8200133</p> </div>	
6. GENUS AND SPECIES NAME <p><u>Glycine max</u></p>		7. FAMILY NAME (Botanical) <p style="text-align: center;">Leguminosae</p>		<div style="display: flex; flex-direction: column;"> <div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-weight: bold; margin-right: 5px;">FILING</div> <div> DATE <p style="text-align: center;">6/21/82</p> </div> </div> <div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-weight: bold; margin-right: 5px;">FEES RECEIVED</div> <div> TIME <p style="text-align: center;">9:00 <input checked="" type="checkbox"/> A.M. <input type="checkbox"/> P.M.</p> </div> </div> </div>	
8. KIND NAME <p style="text-align: center;">Soybean</p>		9. DATE OF DETERMINATION <p style="text-align: center;">December 1978</p>		<div style="display: flex; flex-direction: column;"> <div> AMOUNT FOR FILING <p style="text-align: center;">\$ 500.00</p> </div> <div> DATE <p style="text-align: center;">6/21/82</p> </div> </div>	
10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporation, partnership, association, etc.) <p style="text-align: center;">Corporation</p>				<div style="display: flex; flex-direction: column;"> <div> AMOUNT FOR CERTIFICATE <p style="text-align: center;">\$ 250.00</p> </div> <div> DATE <p style="text-align: center;">8/15/83</p> </div> </div>	
11. IF INCORPORATED, GIVE STATE OF INCORPORATION <p style="text-align: center;">Minnesota</p>				12. DATE OF INCORPORATION <p style="text-align: center;">July 8, 1921</p>	
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS <p style="text-align: center;">Drew R. Ivers Land O' Lakes Research Farm R. R. 2 Webster City, Iowa 50595</p>					
14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 48%;"> a. <input checked="" type="checkbox"/> Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.) b. <input checked="" type="checkbox"/> Exhibit B, Novelty Statement </div> <div style="width: 48%;"> c. <input checked="" type="checkbox"/> Exhibit C, Objective Description of the Variety (Request form from Plant Variety Protection Office.) d. <input type="checkbox"/> Exhibit D, Additional Description of the Variety </div> </div>					
15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act.) <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <input type="checkbox"/> Yes (If "Yes," answer items 16 and 17 below) <input checked="" type="checkbox"/> No </div>					
16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			17. IF "YES" TO ITEM 16, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED? <div style="display: flex; justify-content: space-between;"> <input type="checkbox"/> Foundation <input type="checkbox"/> Registered <input type="checkbox"/> Certified </div>		
18. DID THE APPLICANT(S) FILE FOR PROTECTION OF THE VARIETY IN THE U.S. OR OTHER COUNTRIES? <div style="text-align: right; margin-top: 10px;"> <input type="checkbox"/> Yes (If "Yes," give names of countries and dates) <input checked="" type="checkbox"/> No </div>					
19. HAVE RIGHTS BEEN GRANTED IN THE U.S. OR OTHER COUNTRIES? <div style="text-align: right; margin-top: 10px;"> <input type="checkbox"/> Yes (If "Yes," give names of countries and dates) <input checked="" type="checkbox"/> No </div>					
20. The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable. The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.					
SIGNATURE OF APPLICANT <div style="text-align: center; font-family: cursive; font-size: 1.2em;">Drew R. Ivers, Research Geneticist</div>				DATE <p style="font-size: 1.2em; text-align: center;">27 May 82</p>	
SIGNATURE OF APPLICANT				DATE <div style="text-align: right; font-size: 1.5em;">1</div>	

INSTRUCTIONS

General: Send an original copy of the application and exhibits, at least 2,500 viable seeds, and \$500 fee (\$250 filing fee and \$250 examination fee) to U.S. Department of Agriculture, Agricultural Marketing Service, Livestock, Meat, Grain and Seed Division, Plant Variety Protection Office, National Agricultural Library Building, Beltsville, Maryland 20705. (See section 180.175 of the Regulations and Rules of Practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

Item

- 9 Give the date the applicant determined that he had a new variety based on (1) the definition in section 41(a) of the Act and (2) the date a decision was made to increase the seed.
- 14a Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4) evidence of uniformity and stability.
- 14b Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties: (1) identify these varieties and state all differences objectively; (2) attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.
- 14c Fill in the Exhibit C, Objective Description form, for all characteristics for which you have adequate data.
- 14d Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 15 If "Yes" is specified (*seed of this variety be sold by variety name only as a class of certified seed*) the applicant may **NOT** reverse his affirmative decision after the variety has either been sold and so labeled, his decision published, or the certificate has been issued. However, if the applicant specified "No," he may change his choice. (See section 180.16 of the Regulations and Rules of Practice.)
- 16 See section 42 of the Plant Variety Protection Act and section 180.7 of the Regulations and Rules of Practice.



EXHIBIT A

Origin and Breeding History of the Variety:

1. L4204 was selected as a single plant (Sel 15-11) in 1976 from the LOL variety Dixon. Dixon is a selection from the cross: Amsoy X Wayne.
2. L4204 was selected as a plant-row in 1977 and identified as 77-2529.
3. L4204 was yield tested in replicated trials at multiple locations in 1978, 1979, 1980, and 1981.
4. L4204 was planted in a four-row strip increase in 1979; and, 100 single plants were pulled.
5. L4204 was increased from 100 purification rows in 1980 to 3 bushel of Breeder's Seed.
6. L4204 may have up to 0.01% mechanical mixtures.
7. L4204 is genetically stable, being homozygous and homogeneous, and void of genetic variants.

EXHIBIT B
Novelty Statement

L4204 is most similar to the variety Dixon.

L4204 differs from Dixon in that:

L4204 has white flowers, Dixon has purple.

L4204 is similar to the variety Beeson.

L4204 differs from Beeson in that:

L4204 has a buff hilum, Beeson has imperfect black.

L4204 has white flowers, Beeson has purple.

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, POULTRY, GRAIN & SEED DIVISION
BELTSVILLE, MARYLAND 20708

EXHIBIT C
(Soybean)

OBJECTIVE DESCRIPTION OF VARIETY
SOYBEAN (GLYCINE MAX)

INSTRUCTIONS: See Reverse.

NAME OF APPLICANT(S)

Land O' Lakes, Inc.

ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code)

R. R. 2

Webster City, Iowa 50595

FOR OFFICIAL USE ONLY

PVPO NUMBER

8200133

VARIETY NAME OR TEMPORARY
DESIGNATION

L4204

Place the appropriate number that describes the varietal character of this variety in the boxes below.

1. SEED SHAPE:

☒ 2 1 = SPHERICAL 2 = SPHERICAL FLATTENED 3 = ELONGATE 4 = OTHER (Specify)

2. SEED COAT COLOR:

☒ 1 1 = YELLOW 2 = GREEN 3 = BROWN 4 = BLACK
5 = OTHER (Specify)

SHADE:

☒ 2 1 = LIGHT 2 = MEDIUM 3 = DARK

3. SEED COAT LUSTER:

☒ 1 1 = DULL 2 = SHINY

4. SEED SIZE

☒ 1 ☒ 6 GRAMS PER 100 SEEDS

5. HILUM COLOR:

☒ 1 1 = BUFF 2 = YELLOW 3 = BROWN 4 = GRAY 5 = IMPERFECT BLACK
6 = BLACK 7 = OTHER (Specify)

SHADE:

☒ 3 1 = LIGHT 2 = MEDIUM 3 = DARK

6. COTYLEDON COLOR:

☒ 2 1 = YELLOW 2 = GREEN

7. LEAFLET SIZE (See Reverse):

☒ 2 1 = SMALL 2 = MEDIUM 3 = LARGE

8. LEAFLET SHAPE:

☒ 1 1 = OVATE 2 = OBLONG 3 = LANCEOLATE 4 = ELLIPTICAL 5 = OTHER (Specify)

9. LEAF COLOR (See reverse):

☒ 2 1 = LIGHT GREEN 2 = MEDIUM GREEN 3 = DARK GREEN

10. FLOWER COLOR:

☒ 1 1 = WHITE 2 = PURPLE
3 = OTHER (Specify)

11. POD COLOR:

☒ 1 1 = TAN 2 = BROWN 3 = BLACK

12. POD SET:

☒ 1 1 = SCATTERED 2 = CONCENTRATED

13. PLANT PUBESCENCE COLOR:

☒ 1 1 = GRAY 2 = BROWN 3 = OTHER (Specify)

SHADE:

☒ 2 1 = LIGHT 2 = MEDIUM 3 = DARK

14. PLANT TYPES (See Reverse):

☒ 3 1 = SLENDER 2 = BUSHY 3 = INTERMEDIATE

15. PLANT HABIT:

☒ 2 1 = DETERMINATE 2 = INDETERMINATE
3 = OTHER (Specify)

16. HYPOCOTYL COLOR:

☒ 1 1 = GREEN 2 = PURPLE

17. SEED PROTEIN:

☐ 1 = A 2 = B

18. NUMBER OF DAYS TO FLOWERING

(Place a zero in first box (e.g. 0 9) when days are 9 or less.)

☒ 5 ☒ 6

19. MATURITY GROUP:

☒ 4 1 = 00 2 = 0 3 = I 4 = II 5 = III
6 = IV 7 = V 8 = VI 9 = VII 10 = VIII

20. SIZE OF 10 DAY OLD SEEDLING GROWN UNDER CONSTANT LIGHT (Growth Chamber) AT 25° C. (Place a zero in first box (e.g. 0 2) when size is 9 mm. or less.)

☒ 2 ☒ 9 ☒ 0 MM. LENGTH OF SEEDLING

☒ 2 ☒ 2 MM. LENGTH OF COTYLEDON

☒ 1 ☒ 3 MM. WIDTH OF COTYLEDON

21. DISEASE: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)

☐ 0 BACTERIAL PUSTULE

☒ 1 SOYBEAN CYST

☐ 0 DOWNY MILDEW

☐ 0 PURPLE STAIN

☐ 0 POD AND STEM BLIGHT

☐ 0 ROOT KNOT

☐ 0 FROGEYE

☐ 0 STEM CANKER

☒ 1 PHYTO-PHTHORA

☐ 0 BROWN STEM ROT

☐ 0 TARGET SPOT

☐ 0 BROWN SPOT

☐ 0 BUD BLIGHT

☐ 0 WILDFIRE

☐ 0 RHIZOCTONIA ROT

☐ 0 OTHER (Specify)

22. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED.

CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Plant shape	Dixon	Petiole angle	Dixon
Leaf shape	"	Seed size	"
Leaf color	"	Seed shape	"
Leaf surface	"	Seedling pigmentation	"

23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY:

VARIETY	NO. OF DAYS TO MATURITY	LODGING SCORE	PLANT HEIGHT	LEAF SIZE		CONTENT		AVERAGE NO. OF PODS PER PLANT	IODINE NO.
				Width	Length	Protein	Oil		
Submitted	133	2.3	40"	70 mm	130 mm	40.0	%	46	
Name of similar variety Dixon	132	2.4	40"	70 mm	130 mm	42.6		45	

INSTRUCTIONS

GENERAL: The following publications may be used as a reference aid for completing this form:

1. Scott, Walter O. and Samuel R. Aldrich, 1970, Modern Soybean Production, The Farmer Quarterly.
2. Norman, A. G., 1963, The Soybean: Genetics, Breeding, Physiology, Nutrition, Management.
3. McKie, J. W., and K. L. Anderson, 1970, The Soybean Book.

LEAF COLOR: Nickerson's or any recognized color fan may be used to determine the leaf color of the described variety. The following Soybean varieties may be used as a guide to identify the colors listed on the form.

COLOR	VARIETY
Light Green	"Ada"
Medium Green	"Wilkin"
Dark Green	"Swift"

LEAF SIZE: The following varieties may be used as a guide to identify the relative size leaves.

SIZE	VARIETY
Small	"Amsoy"
Medium	"Bonus"
Large	"Anoka"

PLANT TYPE: The following varieties may be used as a guide to identify the plant type.

TYPE	VARIETY
Slender	"Vansoy"
Intermediate	"Wirth"
Bushy	"Adelphia"

RECEIVED
JUN 21 1982

